

20 A-TYPE BATCHING TROLLEY WITH DRIVE

Heavy Duty Fabric Roll Batching & Motorized Rotation System

The Fabric Batching & Vertical Drive System is designed for controlled batching, rotation, and handling of large fabric rolls in textile processing environments. The system integrates a Heavy Duty A-Frame Fabric Batching Trolley with SS-316 Cladded Roll and a Motorized Vertical Drive Column Assembly, enabling smooth roll rotation and stable fabric winding operations.

Engineered for textile dyeing units, finishing plants, inspection departments, and safe handling of large batches, and reliable torque transmission during fabric batching and re-rolling processes.

The equipment is constructed with heavy fabricated steel structures, precision shaft alignment, and industrial-grade drive components, providing stable operation, long service life, and minimal maintenance requirements in demanding industrial environments.

APPLICATIONS

- » Fabric batching during textile processing
- » Fabric roll handling in dyeing and finishing plants
- » Batch rotation for inspection and reprocessing
- » Fabric roll preparation for downstream processes
- » Controlled roll winding and unwinding operations
- » Textile production and inspection departments

MACHINE CONFIGURATION Heavy Duty A-Frame Batching Trolley

The batching trolley is designed with a robust A-frame structure capable of supporting large diameter fabric rolls while maintaining stability during rotation and movement.

Structural Frame

- » Heavy duty fabricated Mild Steel A-Frame construction
- » Structural members made from 100 mm × 50 mm MS channels
- » Reinforced support channels at critical load points
- » Rigid base frame for stability during operation
- » Industrial protective coating for corrosion resistance

Roll Assembly

- » Roll Diameter: 200.MM / 220.MM
- » Face Length: 1400.MM TO 3800.MM
- » Roll Surface Cladding: SS-316 Stainless Steel Sheet 2.0.MM / 2.5.MM THICKNESS
- » Precision-machined roll surface for smooth fabric contact

Bearing Arrangement

- » Bearing Type: UCP 210 Pillow Block Bearings
- » Heavy duty bearing housing with grease lubrication

Wheel & Mobility System

- » Wheel Size: 12" × 3" Heavy Duty Industrial Wheels
- » Wheel Type: UHMW Bearing Type Wheels
- » Load Capacity: Suitable for heavy fabric rolls
- » Two fixed heavy channel support legs for stationary stability

Handling Features

- » One side push handle for manual manoeuvring
- » One side pull handle for positioning
- » Rotating couple adapter for connection with drive column
- » Smooth roll rotation during batching operation

VERTICAL DRIVE COLUMN ASSEMBLY Drive System

- » Motor Power: 5 HP
- » Motor Type: Industrial Duty Induction Motor
- » Power Supply: 3 Phase, 380 Volt, 60 Hz
- » Motor Duty: Continuous operation

Gearbox

- » Heavy duty industrial reduction gearbox
- » Designed for continuous torque transmission
- » Low noise and high efficiency gear system

Transmission Mechanism

- » Precision Universal Joint Coupling
- » Flexible torque transmission between drive and roll shaft
- » Compensation for minor misalignment

Structural Column

- » Heavy fabricated Mild Steel vertical support column
- » Precision machined shaft alignment system
- » Rigid construction to eliminate vibration

Mounting System

- » Heavy duty floor mounted base frame
- » Rigid mounting plate for motor and gearbox
- » Designed for vibration-free operation

TECHNICAL PARAMETERS

- » Maximum Fabric Roll Width: Up to 3600.MM
- » Roll Diameter Capacity: Customizable as per process requirement
- » Roll Support Shaft Diameter: 60 mm
- » Roll Surface Material: SS-316 Stainless Steel Cladding
- » Drive Power: 5 HP
- » Power Supply: 3 Phase / 380 V / 60 Hz
- » Bearing Type: UCP 210 Pillow Block Bearings
- » Wheel Size: 12" × 3" Industrial Wheels
- » Frame Material: Heavy Fabricated Mild Steel
- » Surface Finish: Industrial Grey Protective Coating


INDUSTRIES SERVED


- » Textile Dyeing & Finishing Plants
- » Garment Manufacturing Facilities
- » Fabric Processing Units
- » Fabric Export Houses
- » Textile Inspection Departments
- » Technical Textile Manufacturers


Designed for Precision. Built for Industrial Reliability.



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